

16805 U.S. PTO  
012704

PTO/SB/05 (11-00)

Approved for use through 07/31/06. OMB 0651-0032

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>UTILITY PATENT APPLICATION TRANSMITTAL</b> (Only for new nonprovisional applications under 37 CFR 1.53(b))	<b>Attorney Docket No.</b>	04132- P0001A
	<b>First Inventor</b>	Young-Kwan Lee, et al.
	<b>Title</b>	Antenna Structure For Inductively Coupled Plasma Generator
	<b>Express Mail Label No.</b>	EL 889 893 706 US

<b>APPLICATION ELEMENTS</b> See MPEP chapter 600 concerning utility patent application contents	<b>ADDRESS TO:</b> Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450
1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original, and a duplicate for fee processing)	7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
2. <input checked="" type="checkbox"/> Applicant claims small entity status See 37 CFR 1.27.	8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
3. <input checked="" type="checkbox"/> Specification [Total Pages 15] (preferred arrangement set forth below) <ul style="list-style-type: none"><li>- Descriptive title of the Invention</li><li>- Cross References to Related Applications</li><li>- Statement Regarding Fed sponsored R &amp; D</li><li>- Reference to sequence listing, a table, or a computer program listing appendix</li><li>- Background of the Invention</li><li>- Brief Summary of the Invention</li><li>- Brief Description of the Drawings (if filed)</li><li>- Detailed Description</li><li>- Claims(s)</li><li>- Abstract of the Disclosure</li></ul>	a. <input type="checkbox"/> Computer Readable Form (CRF) b.: Specification Sequence Listing on: <ul style="list-style-type: none"><li>i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or</li><li>ii. <input type="checkbox"/> paper</li></ul>
4. <input checked="" type="checkbox"/> Drawings(s) (35 USC 113) [Total Sheets 9]	c. <input type="checkbox"/> Statement verifying identity of above copies
5. Oath or Declaration [Total Sheets 4] <ul style="list-style-type: none"><li>a. <input checked="" type="checkbox"/> Newly executed (original or copy)</li><li>b. <input type="checkbox"/> Copy from prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed)<ul style="list-style-type: none"><li>i. <input type="checkbox"/> <b>DELETION OF INVENTOR(S)</b> Signed statement attached deleting inventors(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).</li></ul></li></ul>	<b>ACCOMPANYING APPLICATION PARTS</b>
6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76	9. <input checked="" type="checkbox"/> Assignment Papers (cover sheet & document(s))
	10. <input type="checkbox"/> 37 CFR 3.73(b) Statement (when there is an assignee) <input type="checkbox"/> Power of Attorney
	11. <input type="checkbox"/> English Translation Document (if applicable)
	12. <input checked="" type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input checked="" type="checkbox"/> Copies of IDS Citations
	13. <input type="checkbox"/> Preliminary Amendment
	14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
	15. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed)
	16. <input type="checkbox"/> Nonpublication Request and Certification under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 of its equivalent.
	17. <input checked="" type="checkbox"/> Other...PCT/KR02/01407 Cover Sheet

18. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

☒ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: PCT/KR02/01407 July 26, 2002

Prior application information: Examiner Group/Art Unit: Priority Claimed: KR 2001-23128 July 30, 2001

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

<b>18. CORRESPONDENCE ADDRESS</b>					
<input checked="" type="checkbox"/> Customer Number:		24126		OR <input checked="" type="checkbox"/> Correspondence address below	
Name	Wesley W. Whitmyer, Jr.				
Address	St. Onge Steward Johnston & Reens LLC 986 Bedford Street				
City	Stamford	State	CT	Zip Code	06905-5619
Country	United States	Telephone	203 324-6155	Fax	203 327-1096

Name (Print/Type)	Hyun Jong Park	Registration No. (Attorney/Agent)	See attached
Signature	H. J. Park		Date 1/27/04

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 36 U.S.C. 122 ND 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Office, Patent and Trademark Office, Washington, DC 20231-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<h1 style="margin: 0;">FEE TRANSMITTAL</h1> <h2 style="margin: 0;">for FY 2003</h2> <p style="margin: 0; font-size: small;">Effective 01/01/2003. Patent fees are subject to annual revision</p>		<b>Complete if Known</b>	
		Application No.	- Pending
		Filing Date	January 27, 2004
		First Named Inventor	Young-Kwan Lee, et al.
		Examiner Name	
		Art Unit	
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Attorney Docket Number	04132-P0001A WWW/HJP
<b>TOTAL AMOUNT OF PAYMENT</b>		(\$)	425.00

METHOD OF PAYMENT (check all that apply)		FEE CALCULATION (continued)																																																																																																																																																																																												
<input checked="" type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money <input type="checkbox"/> Other <input type="checkbox"/> None <input type="checkbox"/> Deposit Account:                      order		<b>3. ADDITIONAL FEES</b>																																																																																																																																																																																												
Deposit Account Number: <span style="border: 1px solid black; padding: 2px 20px;">19-4516</span> Deposit Account Name: <span style="border: 1px solid black; padding: 2px 50px;">St Onge Steward Johnston &amp; Reens LLC</span>		<table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>1051</td><td>130</td><td>2051</td><td>65</td><td>Surcharge – late filing for or oath</td><td></td></tr> <tr><td>1052</td><td>50</td><td>2052</td><td>25</td><td>Surcharge – late provisional filing or cover sheet</td><td></td></tr> <tr><td>1053</td><td>130</td><td>1053</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>1812</td><td>2,520</td><td>1812</td><td>2,520</td><td>For filing a request for <i>ex parte</i> reexamination</td><td></td></tr> <tr><td>1804</td><td>920*</td><td>1804</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>1805</td><td>1,840*</td><td>1805</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>1251</td><td>110</td><td>2251</td><td>55</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>1252</td><td>40</td><td>2252</td><td>210</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>1253</td><td>950</td><td>2253</td><td>475</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>1254</td><td>1,450</td><td>2254</td><td>725</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>1255</td><td>1,970</td><td>2255</td><td>985</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>1401</td><td>330</td><td>2401</td><td>165</td><td>Notice of Appeal</td><td></td></tr> <tr><td>1402</td><td>330</td><td>2402</td><td>165</td><td>Filing brief in support of an appeal</td><td></td></tr> <tr><td>1403</td><td>290</td><td>2403</td><td>145</td><td>Request for oral hearing</td><td></td></tr> <tr><td>1451</td><td>1,510</td><td>1451</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>1452</td><td>110</td><td>2452</td><td>55</td><td>Petition to revive – unavoidable</td><td></td></tr> <tr><td>1453</td><td>1,330</td><td>2453</td><td>665</td><td>Petition to revive – unintentional</td><td></td></tr> <tr><td>1501</td><td>1,330</td><td>2501</td><td>665</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>1502</td><td>480</td><td>2502</td><td>240</td><td>Design issue fee</td><td></td></tr> <tr><td>1503</td><td>640</td><td>2503</td><td>320</td><td>Plant issue fee</td><td></td></tr> <tr><td>1460</td><td>130</td><td>1460</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>1807</td><td>50</td><td>1807</td><td>50</td><td>Processing fee under 37 CFR 1.17(q)</td><td></td></tr> <tr><td>1806</td><td>180</td><td>1806</td><td>180</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>8021</td><td>40</td><td>8021</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td>40.00</td></tr> <tr><td>1809</td><td>770</td><td>2809</td><td>385</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr> <tr><td>1810</td><td>770</td><td>2810</td><td>385</td><td>For each additional invention to be examined (37CFR 1.129(b))</td><td></td></tr> <tr><td>1801</td><td>770</td><td>2801</td><td>385</td><td>Request for Continued Examination (RCE)</td><td></td></tr> <tr><td>1802</td><td>900</td><td>1802</td><td>900</td><td>Request for expedited examination of a design application</td><td></td></tr> <tr> <td colspan="4">Other fee (specify) _____</td> <td></td> <td></td> </tr> </tbody> </table>				Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	1051	130	2051	65	Surcharge – late filing for or oath		1052	50	2052	25	Surcharge – late provisional filing or cover sheet		1053	130	1053	130	Non-English specification		1812	2,520	1812	2,520	For filing a request for <i>ex parte</i> reexamination		1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action		1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action		1251	110	2251	55	Extension for reply within first month		1252	40	2252	210	Extension for reply within second month		1253	950	2253	475	Extension for reply within third month		1254	1,450	2254	725	Extension for reply within fourth month		1255	1,970	2255	985	Extension for reply within fifth month		1401	330	2401	165	Notice of Appeal		1402	330	2402	165	Filing brief in support of an appeal		1403	290	2403	145	Request for oral hearing		1451	1,510	1451	1,510	Petition to institute a public use proceeding		1452	110	2452	55	Petition to revive – unavoidable		1453	1,330	2453	665	Petition to revive – unintentional		1501	1,330	2501	665	Utility issue fee (or reissue)		1502	480	2502	240	Design issue fee		1503	640	2503	320	Plant issue fee		1460	130	1460	130	Petitions to the Commissioner		1807	50	1807	50	Processing fee under 37 CFR 1.17(q)		1806	180	1806	180	Submission of Information Disclosure Stmt		8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40.00	1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))		1810	770	2810	385	For each additional invention to be examined (37CFR 1.129(b))		1801	770	2801	385	Request for Continued Examination (RCE)		1802	900	1802	900	Request for expedited examination of a design application		Other fee (specify) _____						
Large Entity		Small Entity		Fee Description	Fee Paid																																																																																																																																																																																									
Fee Code	Fee (\$)	Fee Code	Fee (\$)																																																																																																																																																																																											
1051	130	2051	65	Surcharge – late filing for or oath																																																																																																																																																																																										
1052	50	2052	25	Surcharge – late provisional filing or cover sheet																																																																																																																																																																																										
1053	130	1053	130	Non-English specification																																																																																																																																																																																										
1812	2,520	1812	2,520	For filing a request for <i>ex parte</i> reexamination																																																																																																																																																																																										
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action																																																																																																																																																																																										
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action																																																																																																																																																																																										
1251	110	2251	55	Extension for reply within first month																																																																																																																																																																																										
1252	40	2252	210	Extension for reply within second month																																																																																																																																																																																										
1253	950	2253	475	Extension for reply within third month																																																																																																																																																																																										
1254	1,450	2254	725	Extension for reply within fourth month																																																																																																																																																																																										
1255	1,970	2255	985	Extension for reply within fifth month																																																																																																																																																																																										
1401	330	2401	165	Notice of Appeal																																																																																																																																																																																										
1402	330	2402	165	Filing brief in support of an appeal																																																																																																																																																																																										
1403	290	2403	145	Request for oral hearing																																																																																																																																																																																										
1451	1,510	1451	1,510	Petition to institute a public use proceeding																																																																																																																																																																																										
1452	110	2452	55	Petition to revive – unavoidable																																																																																																																																																																																										
1453	1,330	2453	665	Petition to revive – unintentional																																																																																																																																																																																										
1501	1,330	2501	665	Utility issue fee (or reissue)																																																																																																																																																																																										
1502	480	2502	240	Design issue fee																																																																																																																																																																																										
1503	640	2503	320	Plant issue fee																																																																																																																																																																																										
1460	130	1460	130	Petitions to the Commissioner																																																																																																																																																																																										
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)																																																																																																																																																																																										
1806	180	1806	180	Submission of Information Disclosure Stmt																																																																																																																																																																																										
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40.00																																																																																																																																																																																									
1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))																																																																																																																																																																																										
1810	770	2810	385	For each additional invention to be examined (37CFR 1.129(b))																																																																																																																																																																																										
1801	770	2801	385	Request for Continued Examination (RCE)																																																																																																																																																																																										
1802	900	1802	900	Request for expedited examination of a design application																																																																																																																																																																																										
Other fee (specify) _____																																																																																																																																																																																														
<b>1. BASIC FILING FEE</b> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>1101</td><td>770</td><td>2001</td><td>385</td><td>Utility filing fee</td><td>385.00</td></tr> <tr><td>1002</td><td>340</td><td>2202</td><td>170</td><td>Design filing fee</td><td></td></tr> <tr><td>1003</td><td>530</td><td>2003</td><td>265</td><td>Plant filing fee</td><td></td></tr> <tr><td>1004</td><td>770</td><td>2004</td><td>385</td><td>Reissue filing fee</td><td></td></tr> <tr><td>1005</td><td>160</td><td>2005</td><td>80</td><td>Provisional filing fee</td><td></td></tr> <tr> <td colspan="4">SUBTOTAL (1)</td> <td>(\$)</td> <td>385.00</td> </tr> </tbody> </table>		Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	1101	770	2001	385	Utility filing fee	385.00	1002	340	2202	170	Design filing fee		1003	530	2003	265	Plant filing fee		1004	770	2004	385	Reissue filing fee		1005	160	2005	80	Provisional filing fee		SUBTOTAL (1)				(\$)	385.00	<b>2. EXTRA CLAIMS FEES FOR UTILITY AND REISSUE</b> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th colspan="2"></th> <th>Extra Claims</th> <th>Fee from below</th> <th></th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>Total Claims</td> <td>4</td> <td>-20**</td> <td>0</td> <td>X</td> <td>=</td> </tr> <tr> <td>Independent Claims</td> <td>2</td> <td>-3**</td> <td>0</td> <td>X</td> <td>=</td> </tr> <tr> <td>Multiple Dependent</td> <td></td> <td>0</td> <td></td> <td></td> <td>=</td> </tr> </tbody> </table>						Extra Claims	Fee from below		Fee Paid	Total Claims	4	-20**	0	X	=	Independent Claims	2	-3**	0	X	=	Multiple Dependent		0			=																																																																																																																			
Large Entity		Small Entity		Fee Description	Fee Paid																																																																																																																																																																																									
Fee Code	Fee (\$)	Fee Code	Fee (\$)																																																																																																																																																																																											
1101	770	2001	385	Utility filing fee	385.00																																																																																																																																																																																									
1002	340	2202	170	Design filing fee																																																																																																																																																																																										
1003	530	2003	265	Plant filing fee																																																																																																																																																																																										
1004	770	2004	385	Reissue filing fee																																																																																																																																																																																										
1005	160	2005	80	Provisional filing fee																																																																																																																																																																																										
SUBTOTAL (1)				(\$)	385.00																																																																																																																																																																																									
		Extra Claims	Fee from below		Fee Paid																																																																																																																																																																																									
Total Claims	4	-20**	0	X	=																																																																																																																																																																																									
Independent Claims	2	-3**	0	X	=																																																																																																																																																																																									
Multiple Dependent		0			=																																																																																																																																																																																									
<table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>1201</td><td>18</td><td>2202</td><td>9</td><td>Claims in excess of 20</td></tr> <tr><td>1201</td><td>86</td><td>2201</td><td>43</td><td>Independent claims in excess of 3</td></tr> <tr><td>1203</td><td>290</td><td>2203</td><td>145</td><td>Multiple dependent claims, if not paid</td></tr> <tr><td>1204</td><td>86</td><td>2204</td><td>43</td><td>**Reissue independent claims over original patent</td></tr> <tr><td>1205</td><td>18</td><td>2205</td><td>9</td><td>**Reissue claims in excess of 20 over original patent</td></tr> <tr> <td colspan="4">SUBTOTAL (2)</td> <td>(\$)</td> <td>-0-</td> </tr> </tbody> </table>		Large Entity		Small Entity		Fee Description	Fee Code	Fee (\$)	Fee Code	Fee (\$)	1201	18	2202	9	Claims in excess of 20	1201	86	2201	43	Independent claims in excess of 3	1203	290	2203	145	Multiple dependent claims, if not paid	1204	86	2204	43	**Reissue independent claims over original patent	1205	18	2205	9	**Reissue claims in excess of 20 over original patent	SUBTOTAL (2)				(\$)	-0-	** or number previously paid, if greater; For Reissues, see above																																																																																																																																																				
Large Entity		Small Entity		Fee Description																																																																																																																																																																																										
Fee Code	Fee (\$)	Fee Code	Fee (\$)																																																																																																																																																																																											
1201	18	2202	9	Claims in excess of 20																																																																																																																																																																																										
1201	86	2201	43	Independent claims in excess of 3																																																																																																																																																																																										
1203	290	2203	145	Multiple dependent claims, if not paid																																																																																																																																																																																										
1204	86	2204	43	**Reissue independent claims over original patent																																																																																																																																																																																										
1205	18	2205	9	**Reissue claims in excess of 20 over original patent																																																																																																																																																																																										
SUBTOTAL (2)				(\$)	-0-																																																																																																																																																																																									
		*Reduced by Basic Filing Fee Paid																																																																																																																																																																																												
		<b>SUBTOTAL (3)</b> (\$) 40.00																																																																																																																																																																																												

<b>SUBMITTED BY</b> St.Onge Steward Johnston & Reens LLC		<b>Complete (if applicable)</b>	
Name (Print/Type)	Hyun Jong Park	Registration No (Attorney/Agent)	See attached
Signature	<i>H. J. Park</i>	Telephone	203 324-6155
		Date	1/27/2004

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038

This collection of information is required by 37CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering of information, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORM TO THIS ADDRESS. SEND TO: Commissioner for Patents; P.O. Box 1450; Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 8-800-PTO-9199 and select option 2

PATENT  
04132-P0001A WWW/HJP

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants	Young-Kwan Lee, et al.
Serial No. - Pending	January 27, 2004
Title of Application:	Antenna Structure For Inductively Coupled Plasma Generator

Mail Stop Patent Application  
Commissioner for Patents  
Post Office Box 1450  
Alexandria, VA 22313-1450

**Cover Sheet For Nine Sheets Of Drawings**

Attorneys for Applicants  
Wesley W. Whitmyer, Jr., Registration No. 33,558  
Hyun Jong Park, Limited Recognition  
**ST.ONGE STEWARD JOHNSTON & REENS LLC**  
986 Bedford Street  
Stamford, CT 06905-5619  
203 324-6155